

results of NLAST

BLASTN 2.2.5 [Nov-16-2002]

Reference:

Altschul, Stephen F., Thomas L. Madden, Alejandro A. Schäffer, Jinghui Zhang, Zheng Zhang, Webb Miller, and David J. Lipman (1997), "Gapped BLAST and PSI-BLAST: a new generation of protein database search programs", Nucleic Acids Res. 25:3389-3402.

RID: 1041886212-011034-25435

Query=

(402 letters)

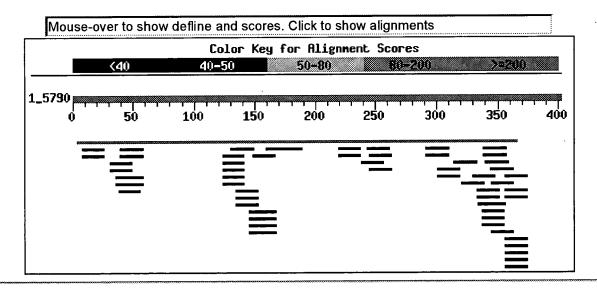
Database: All GenBank+EMBL+DDBJ+PDB sequences (but no EST, STS, GSS, or phase 0, 1 or 2 HTGS sequences)

1,561,220 sequences; 7,640,351,724 total letters

If you have any problems or questions with the results of this search please refer to the ${\bf BLAST}$ ${\bf FAQs}$

Taxonomy reports

Distribution of 58 Blast Hits on the Query Sequence



Sequences producing significant alignments:	Score (bits)	E Value
gi 21213184 gb AY109457.1 Zea mays CL12356_1 mRNA sequence gi 26892321 gb AC091230.23 Homo sapiens chromosome 15, clo gi 12002009 gb AF063186.1 AF063186 Arthrobacter paraffineus gi 27368269 emb AL731822.31 Mouse DNA sequence from clone	$ \begin{array}{r} 250 \\ \hline 40 \\ \hline 40 \\ \hline 40 \\ \hline 40 \end{array} $	1e-63 2.4 2.4 2.4

```
qi|24430304|emb|AL928751.2|CNS<u>08CBO</u> Oryza sativa chromosome...
                                                                   40
gi|2981261|gb|AC004149.1|AC004149 Homo sapiens chromosome 1...
                                                                   40
                                                                        2.4
                                                                  40
                                                                        2.4
qi|8573811|emb|AL138761.12| Human DNA sequence from clone R...
                                                                        2.4
gi|1825501|gb|U76577.1|HUMCOL14 Human 180 kDa bullous pemph...
                                                                   40
40
                                                                        2.4
                            Homo sapiens genomic DNA, chrom...
qi|13359356|dbj|AP001980.5|
                                                                        2.4
                             Homo sapiens genomic DNA, chrom...
                                                                   40
                                                                        2.4
qi|13359355|dbj|AP001883.5|
                                                                    38
                                                                        9.5
                           Homo sapiens chromosome 3 clone ...
gi|24796750|gb|AC090646.2|
                            Homo sapiens 3 BAC RP11-776B11 (...
                                                                   38
                                                                        9.5
gi|20340420|gb|AC112485.4|
                            Homo sapiens chromosome 8, clone...
                                                                   38
                                                                        9.5
gi|25990260|gb|AC091182.5|
                                                                        9.5
                                                                   38
                            Mus musculus chromosome 5 clone ...
gi|25901147|gb|AC124483.4|
                                                                        9.5
                            Mus musculus chromosome 19 clone...
gi|22539419|gb|AC112144.4|
                            Homo sapiens chromosome 5 clone ...
                                                                   38
                                                                        9.5
gi|22539095|gb|AC094105.3|
                                                                   38
                                                                        9.5
gi|22417370|gb|AC116035.2|
                            Homo sapiens chromosome 3 clone ...
                                                                   38
                                                                        9.5
                              Arabidopsis thaliana chromosom...
gi|22325763|ref|NM 127468.2|
                                                                        9.5
                                                                    38
qi|21743758|gb|AC010331.8|
                            Homo sapiens chromosome 19 clone...
                                                                    38
                                                                        9.5
qi|21553249|qb|AC116991.2|
                            Homo sapiens chromosome 3 clone ...
                                                                   38
                                                                        9.5
gi|21281482|gb|AC108130.2|
                            Homo sapiens chromosome 5 clone ...
                                                                   38
                                                                        9.5
                            Homo sapiens BAC clone RP11-806P...
qi|20800407|qb|AC110089.5|
                                                                        9.5
                            Homo sapiens chromosome 5 clone ...
                                                                   38
gi|21240691|gb|AC116359.2|
                            Methanosarcina mazei strain Goel...
                                                                   38
                                                                        9.5
gi|20907729|gb|AE013562.1|
                                                                   38
                                                                        9.5
                            Arabidopsis thaliana At2g19110/T...
gi|20466062|gb|AY096796.1|
                                                                        9.5
                            Homo sapiens BAC clone RP11-512B...
                                                                   38
qi|20143840|gb|AC108153.4|
                                                                         9.5
                            Arabidopsis thaliana chromosome ...
                                                                   38
gi|20196928|gb|AC002392.3|
                                                                   38
                                                                        9.5
gi|19570160|gb|AC104302.2|
                            Homo sapiens chromosome 3 clone ...
                                                                   38
                            Arabidopsis thaliana putative he...
gi|19071217|gb|AF412407.1|
                                                                   38
                                                                         9.5
                            Homo sapiens BAC clone RP11-669N...
gi|18543162|gb|AC093389.6|
gi|18093040|gb|AC004953.2| Homo sapiens PAC clone RP5-1059M...
                                                                   38
                                                                        9.5
gi|13677114|gb|AC016674.9| Homo sapiens BAC clone RP11-36C8...
                                                                   38
                                                                        9.5
gi|14277274|gb|AC021079.4|AC021079 Homo sapiens chromosome ...
                                                                   38
                                                                        9.5
gi|10881111|gb|AC051663.9|AC051663 Homo sapiens BAC clone R...
                                                                   38
                                                                        9.5
gi|13794247|gb|AC044817.5|AC044817
                                                                        9.5
                                    Homo sapiens, clone RP11...
gi|13357222|gb|AC090884.1|AC090884 Homo sapiens chromosome ...
                                                                    38
                                                                         9.5
                                                                    38
                                                                         9.5
qi|11024922|gb|AC011194.15|AC011194 Mus musculus chromosome...
gi|12061558|gb|AC019233.7|AC019233 Homo sapiens clone RP11-...
                                                                         9.5
                                                                    38
gi|25136716|emb|AL928804.5| Mouse DNA sequence from clone R...
                                                                    38
                                                                        9.5
gi|11990206|emb|AJ297264.1|ATH297264 Arabidopsis thaliana m...
                                                                    38
                                                                         9.5
gi|4874262|gb|AC007590.1|AC007590 Homo sapiens BAC 161A6, c...
                                                                    38
                                                                         9.5
gi|23040001|ref|NZ AAAU01000006.1| Trichodesmium erythraeum...
                                                                    38
                                                                         9.5
gi|1934877|emb|Z82211.1|HS447N6 Human DNA sequence from PAC...
                                                                         9.5
                                                                    38
                                                                         9.5
gi|16904687|dbj|AP003450.3|
                             Oryza sativa (japonica cultivar...
                                                                         9.5
                                                                    38
                             Human DNA sequence from clone ...
gi|16214543|emb|AL158044.17|
                                                                    38
                                                                         9.5
                              Human DNA sequence from clone ...
gi|11120996|emb|AL139092.12|
                                                                    38
                                                                         9.5
                             Homo sapiens genomic DNA, chrom...
gi|22760187|dbj|AP003392.2|
                                                                    38
                                                                         9.5
                             Human DNA sequence from clone R...
gi|11877973|emb|AL353683.7|
                             Human DNA sequence from clone R...
                                                                    38
                                                                         9.5
gi|12578158|emb|AL139397.8|
                                                                         9.5
                             Homo sapiens genomic DNA, chrom...
                                                                    38
gi|22255360|dbj|AP004609.1|
                                                                    38
                                                                         9.5
                             Mouse DNA sequence from clone R...
gi|23395526|emb|AL837525.5|
                                                                    38
                                                                         9.5
                              Human DNA sequence from clone ...
gi|21694353|emb|AL353725.14|
                                                                         9.5
                                                                    38
gi|2618600|dbj|AB008265.1| Arabidopsis thaliana genomic DNA...
gi|21425606|emb|AL714006.13| Mouse DNA sequence from clone ...
                                                                         9.5
                                                                    38
gi|21655409|emb|AL713983.9| Mouse DNA sequence from clone R...
                                                                         9.5
                                                                    38
                                                                   _38
gi|19571951|emb|AL606824.13| Mouse DNA sequence from clone ...
                                                                         9.5
gi|4579991|dbj|AP000070.1| Homo sapiens genomic DNA, chromo...
                                                                         9.5
                                                                   38
```

Alignments

```
>gi|21213<u>184|gb|AY109457.1|</u> Zea mays CL12356 1 mRNA sequence
       Length = 1349
Score = 250 \text{ bits } (126), \text{ Expect} = 1e-63
Identities = 316/366 (86%), Gaps = 10/366 (2%)
Strand = Plus / Minus
        gccgggctcaccagctggcccagtgaaggcttaaag-acatgtgccaggagaaggggcct 63
Ouery: 5
        Sbjct: 496 gccgggctcaccagctggtccag-gaaggcttaaagtacatgttccaggagaaggg-cct 439
Query: 64 tgaacttgtgtggtctgcaccctaattattgct-cagatgtggcaatggagcttctatat 122
        Sbjct: 438 tgtaactgtgtggtctgcaccc-aattattgctacagatgtggcaatgtagcttctatat 380
Query: 123 taagcttcgatgagaagaaggaaaggagatgtcaaggtcttcacagagaccgaggaaaac 182
        Sbjct: 379 taagcttcgatgagaagatggaaa-gagatgtcaagttcttcacagagacagaggaaaac 321
Query: 183 aaccagattccagggccaagggcttggaatcccatatttcctttgacttcaggtggacaa 242
        Sbjct: 320 aaccagatgcgaggcccaaggac-tgcagtcccatatttcctctgacttcaattgtac-a 263
Query: 243 ttttagaaggcaatatttaaatctggaaggggtaaagaacaatcagatggtgttaat-tg 301
        Query: 302 tggaggttcagatcataatgccatctgatgcattccatttctggtttcttttgaacacaa 361
        Sbjct: 203 tgtaggttcagatcatagtgcaatcttatgcgtttgatttctgttttcctttaaccacat 144
Query: 362 gtacaa 367
        11111
Sbjct: 143 gtacaa 138
                       Homo sapiens chromosome 15, clone RP11-414J4, comple
>gi|26892321|gb|AC091230.23|
       Length = 206482
Score = 40.1 bits (20), Expect = 2.4
Identities = 20/20 (100%)
Strand = Plus / Minus
Query: 131
          gatgagaagaaggaag 150
          111111111111111111111
Sbjct: 50697 gatgagaagaaggaaaggag 50678
```

1/6/03

Arthrobacter paraffineus DNA polymerase I gene,

>gi|12002009|gb|AF063186.1|AF063186

	***************************************	rcasso at 190 (sac)	TTCCHICKETAGO COLLATORO ALPTA	CATCOGRICEUS PATATACACACA STOCKTACOTO	No.	leotid	CGATEI AATOTA C A OTA	
PubMed	다.	Protein	Genome	CETAC EASC CAST	PMC	Taxonomy	OMIM	Book
Search Nuc			Genome	Guaciare	1 1110	Go Clear		Book
Scar on 1	Limits	-	Preview/Inde	x Histo	ory	Clipboard	D(etails
Display d	efault 💌	Save Tex	t Add t	o Clipboard	G	et Subsequen	ce	
□ 1: AY109	457. Zea mays	CL12356	.[gi:21213184	1]				Links
LOCUS DEFINITION ACCESSION VERSION KEYWORDS	AY109457	L12356_1 mF GI:212131	-	mRNA e.	linear	HTC 17-0	OCT-2002	
SOURCE ORGANISM	Spermatoph	Viridiplar yta; Magnol icoideae; <i>F</i>	liophyta; L	iliopsida;				
REFERENCE AUTHORS	Hainey, C.F	1 to 1349) ., Dolan,M, Hanafey,						
TITLE		ing Project					of	
JOURNAL REFERENCE AUTHORS	Unpublishe							
TITLE JOURNAL		(25-APR-200			ject, Uni	versity of	Ī	
COMMENT	If you are these are searching www.tigr.omaize cDNA Schnable,	Columbia, No interested publicly available at MSL, maining; or NCBN sequences lowa State, astate.edu	d in gettin vailable fr izemap.org; I, www.ncbi is either then clon	g correspon om ZmDB and ZmDB, www. .nlm.nih.go Virginia Wa	d may be .zmdb.ias ov. When albot, St	found by Estate.edu; the source tanford or	BLAST TIGR, of the Pat	
FEATURES	_	ocation/Qua	alifiers					
source	/ / /	1349 organism="2 db_xref="Madb_xref="taclone_lib="	aizeDB:6301 axon:4577"		t/DuPont	Cornsensus	S	
	/ a c a o	ibrary" note="this ssemblies ontigs to s ssembled by vergo addre	resulting f seed DuPont y DuPont as essing of B	rom the app contigs; t part of a	plication this reso collabor	n of public ource was cation for	the	
BASE COUNT ORIGIN	350 a	314 c		310 t	89 others	5		
1 a 61 d 121 a	aatgacatac c cacgcgaact a agactccgga t ctgcactatg a	aatcggcaa d ggtctattg t	caaaactttg cacatgtggt	gcagtgtcac taaaggaaaa	tgaaggaa cagaaato	ata caggago caa acgcata	atg aga	

4

```
241 atttaaatgt tgacttctaa aatgtacaat tgaagtcaga ggaaatatgg gactgcagtc
     301 cttqqqcctc qcatctqqtt qttttcctct qtctctqtqa agaacttgac atctctttcc
     361 atcttctcat cgaagettaa tatagaaget acattgecae atetgtagea ataattgggt
     421 gcagaccaca cagttacaag gcccttctcc tggaacatgt actttaagcc ttcctggacc
     481 agctggtgag cccggcaaac tagctcgata ccattaacaa agttgaactc tgctgttact
     541 cgcqatccaa acagccaacc tgctccacgg ggactaacag cccatgtctc tatctcctca
     601 gggtcactcc acataagatc gcagaaaggg ccttcatggg gaatttcaca attgcgatca
     661 atcgttcgta tctggtcaat cgtgcgtaca tcaggagaaa gaccaccatg aacacagagg
     721 acttggccat taatgattgc tgatagcgta aggtaatcnn nnncatcagt gcaataccgc
     781 catqcattqq cqttqccata cttcctctga cactcatcat agaaaccata cacctgtgtc
     841 aactgcctac tttcatgatt tccacgcaga agggtaatgt gtgcaggata cctcgctttt
     901 aqtaqcaata qqatqqtqaa aacctctaqa ctattgaagc cacggtccac aaaatcaccc
     961 atgaaaatat agttcgtctc tgggacgtgg ccacccgtcg cgaagagctt cattaggtca
    1021 tqqaactqcc catqqatatc accqcaaacc gtcacqqqgc tgttcactqg ttgcacqttc
    1081 gactettega tgaggatete etteacatat tegeagaggg aetgaagete gtgeteggeg
    1141 aggtgctgac catcettgac cttggagatc cacagatcca aatccatggc gaggcggtgg
    1261 gaggaggaaa ccctctctt gctattggcg gctccnnnnn nnnnnnnnn nnnnnnnn
    1321 nnnnnnnnn nnnnnnnnn ntggatgcg
11
```

Revised: July 5, 2002.

<u>Disclaimer</u> | <u>Write to the Help Desk</u> <u>NCBI</u> | <u>NLM</u> | <u>NIH</u>

Dec 19 2002 15:44:50